

# CHEMICAL ENGINEERING

www.che.com

April  
2013

Heat & Power  
Cogeneration

TWO-PART STORY  
STARTS PAGE 46

## Separation along the Sulfur Recovery Trail

PAGE 38

Relief-  
Valve  
Sizing

Focus on  
Seals &  
Gaskets

Single-Use  
Strategies

Nano-  
Engineered  
Coatings

Facts at Your  
Fingertips:  
Gas Hazards

Safety-  
Instrumented  
Systems

Filtration ↑  
Demisters ↗  
Adsorption →

Access  
Intelligence

#BXNMYST \*\*\*\*\*3-DIGIT 958  
#0950334/CB/6#  
AP1 CHEE1 APR13 0012 #14 #3061  
KELLY THOMAS  
CAL/CPA LIBRARY ARB  
PO BOX 2815  
SACRAMENTO CA 95812-2815

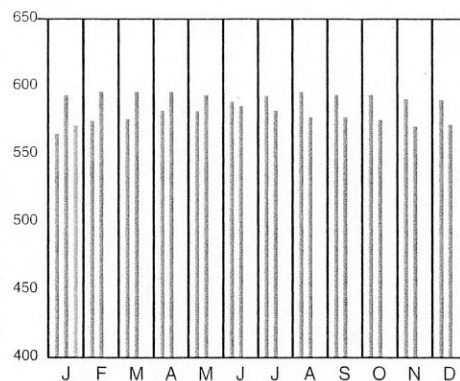
DOWNLOAD THE CEPCI TWO WEEKS SOONER AT [WWW.CHE.COM/PCI](http://WWW.CHE.COM/PCI)

### CHEMICAL ENGINEERING PLANT COST INDEX (CEPCI)

(1957-59 = 100)	Jan. '13 Prelim.	Dec. '12 Final	Jan. '12 Final
<b>CE Index</b>			
Equipment	692.9	693.6	726.8
Heat exchangers & tanks	630.2	634.7	686.7
Process machinery	657.7	657.6	676.1
Pipe, valves & fittings	890.4	895.8	924.9
Process instruments	416.6	415.7	427.8
Pumps & compressors	913.9	899.6	911.6
Electrical equipment	513.9	511.4	511.6
Structural supports & misc	741.6	734.5	776.1
Construction labor	319.8	321.3	321.1
Buildings	531	526.8	520.4
Engineering & supervision	327.1	326.9	329.9

#### Annual Index:

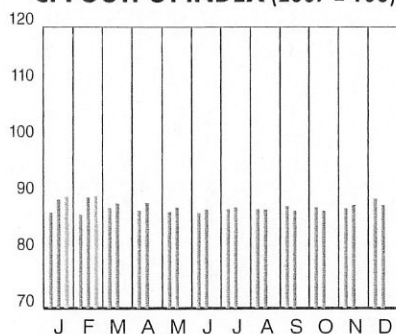
2005 = 468.2  
2006 = 499.6  
2007 = 525.4  
2008 = 575.4  
2009 = 521.9  
2010 = 550.8  
2011 = 585.7  
2012 = 584.6



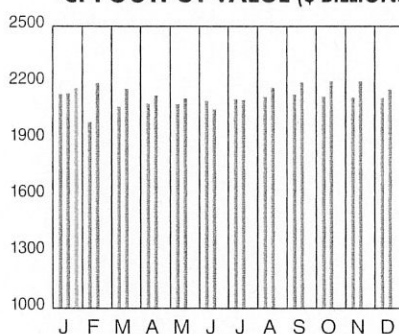
### CURRENT BUSINESS INDICATORS

	LATEST	PREVIOUS	YEAR AGO
CPI output index (2007 = 100)	Feb. '13 = 90.0	Jan. '13 = 89.9	Dec. '12 = 88.3
CPI value of output, \$ billions	Jan. '13 = 2,174.2	Dec. '12 = 2,164.3	Nov. '12 = 2,208.7
CPI operating rate, %	Feb. '13 = 77.4	Jan. '13 = 77.4	Dec. '12 = 76.2
Producer prices, industrial chemicals (1982 = 100)	Feb. '13 = 314.2	Jan. '13 = 299.7	Dec. '12 = 299.7
Industrial Production in Manufacturing (2007=100)	Feb. '13 = 96.5	Jan. '13 = 95.7	Dec. '12 = 94.8
Hourly earnings index, chemical & allied products (1992 = 100)	Feb. '13 = 155.2	Jan. '13 = 155.0	Dec. '12 = 153.9
Productivity index, chemicals & allied products (1992 = 100)	Feb. '13 = 106.6	Jan. '13 = 107.1	Dec. '12 = 105.8

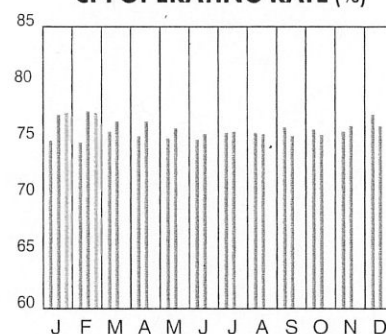
#### CPI OUTPUT INDEX (2007 = 100)



#### CPI OUTPUT VALUE (\$ BILLIONS)



#### CPI OPERATING RATE (%)



Current Business Indicators provided by IHS Global Insight, Inc., Lexington, Mass.

## Equipment Cost Index Available Exclusively from Marshall & Swift



Quarterly updates of our industry-leading Equipment Cost Index are now available at [www.equipment-cost-index.com](http://www.equipment-cost-index.com).

### CURRENT TRENDS

The overall CE Plant Cost Index (CEPCI; top) for 2012 was 0.19% lower than the end-of-year average from 2011. Preliminary data from January 2013 CEPCI (the most recent available) indicate that capital equipment prices declined from December to January, by 0.09%. When compared to year-earlier numbers (from January 2012), the January 2013 preliminary Plant Cost Index stands at 3.74% lower. Meanwhile, the Current Business Indicators from IHS Global Insight (middle), show that the latest CPI output index value (Feb. 2013) edged slightly higher from the previous month, and producer prices for industrial chemicals were modestly higher. ■